

Amendments to the Claims

Listing of claims:

1. (Currently Amended) A gray level conversion method, applied to a device comprising:

a conversion section for obtaining a conversion signal by applying a conversion process to an input signal in accordance with a ~~first~~-conversion characteristic; and

a display element for executing a display with a gray level in accordance with a ~~second~~-display characteristic with respect to a value of said conversion signal,

wherein said ~~first~~-conversion characteristic is set by ~~using a processing device, which uses said second display~~ characteristic and a ~~third~~-desired characteristic with respect to said gray level in association with said input signal, wherein said ~~third~~-desired characteristic is ~~arbitrarily set~~ obtained by the processing device, said method comprising the steps of:

(a) finding a value of said gray level given by said ~~third~~ desired characteristic in response to a set value of the input signal;

(b) finding said ~~second~~-display characteristic using said conversion signal obtained from said conversion section by adopting, as said ~~first~~-conversion characteristic, a

characteristic that makes said input signal and said conversion signal virtually equal to each other;

(c) finding the value of said conversion signal that gives said value of said gray level found at said step (a) in accordance with said ~~second~~ display characteristic;

(d) setting said ~~first~~ conversion characteristic based on a relationship between said value of said input signal set at said step (a) and the value of the conversion signal found at said step (c).

2-3. (Canceled)

4. (Previously presented) The gray level conversion method according to claim 1, wherein said value of said input signal is a digital value in said step (d).

5. (Original) The gray level conversion method according to claim 1, wherein said display device is a liquid crystal display.

6. (Original) The gray level conversion method according to claim 5, wherein said gray level is luminance.

7. (Currently Amended) A display device comprising:

a processing device for obtaining a desired characteristic;

a conversion section for obtaining a conversion signal by applying a conversion process to a supplied signal in accordance with a first characteristic, said supplied signal being one of an input signal and a digital signal;

a display element for executing a display with a gray level in accordance with a second characteristic with respect to a value of the conversion signal; and

a control section for generating said digital signal, said digital signal and said input signal being supplied to said conversion section exclusively from one another,

wherein said ~~first~~ processing device sets the conversion characteristic is set in said conversion section based upon said ~~second~~ display characteristic and a ~~third~~ conversion characteristic with respect to said gray level in association with said supplied signal,

wherein said ~~third characteristic is arbitrarily set~~ display characteristic is determined by adopting, as said conversion characteristic, a characteristic that makes said supplied signal and said conversion signal virtually equal.

8-9. (Canceled)

10. (Original) The display device according to claim 7,
wherein said display device is a liquid crystal display.

11. (Original) The display device according to claim 10,
wherein said gray level is luminance.